

DERWENT-ACC-NO: 2001-295385

DERWENT-WEEK: 200131

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TITLE: Road positional information transmission for vehicle mounted GPS navigation device, involves specifying road position on area displayed on digital map, at reception side, using relative road positional information

PATENT-ASSIGNEE: MATSUSHITA DENKI SANGYO
KK[MATU]

PRIORITY-DATA: 1999JP-0242166 (August 27, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 2001066146	March 16, 2001	N/A
G01C 021/00		007
A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2001066146A ✓	N/A	1999JP-0242166
August 27, 1999		

INT-CL (IPC): G01C021/00; G08G001/0969 ; G09B029/00

ABSTRACTED-PUB-NO: JP2001066146A

BASIC-ABSTRACT: NOVELTY - Road shape matching is performed at the receiving side where the road positional information are received. Then, road area on the displayed digital map is specified. The road position in the road area, is specified, using the received relative road positional information.

DETAILED DESCRIPTION - The additional information including coordinate row information showing the shape of road in road area of preset length, is transmitted along with road attribute information including road position, detailed information on the cross point node in the road area, relative information showing the road positions in road area, for specifying the road position on digital map. The coordinate row information show the positional coordinate data of cross point node and interpolation point in the road area.

USE - For transmitting road positional information to specify road position on digital map displayed in vehicle mounted navigation device of GPS system, during accident or traffic generation.

ADVANTAGE - The road position on digital map can be

notified correctly to the passengers of vehicle, without using cross point node number and link number of road system. Since the additional information is transmitted with cross point node row information the amount of road position data being transmitted is reduced greatly, and road position can be understood quickly with high precision at reception side. The work load and expenses associated with maintenance of digital map database and traffic information providing system, are reduced greatly.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart explaining the transmission of road positional information. (Drawing includes non-English language text).

CHOSEN-DRAWING: Dwg.1/9

TITLE-TERMS:
ROAD POSITION INFORMATION TRANSMISSION
VEHICLE MOUNT GROUP NAVIGATION DEVICE
SPECIFIED ROAD POSITION AREA DISPLAY DIGITAL
MAP RECEPTION SIDE RELATIVE ROAD
POSITION INFORMATION

DERWENT-CLASS: P85 S02 T07

EPI-CODES: S02-B08; T07-A05C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2001-211381